

Figure 1: Single Transceiver on a Line

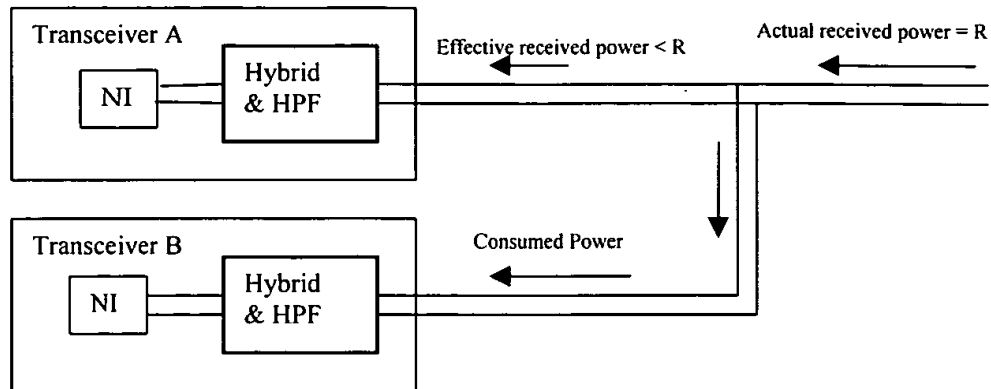


Figure 2: Attenuation of the Received Signal

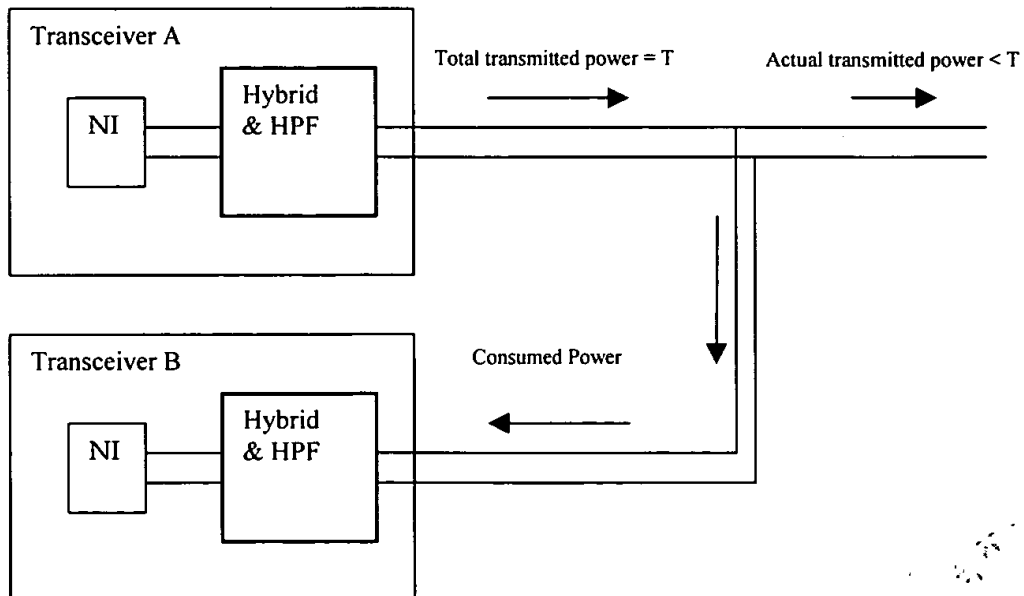
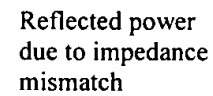


Figure 3: Attenuation of Transmitted Signal

[illegible]

Category	Percentage
The world is a better place	30%
The world is a worse place	20%
The world is the same	10%
I don't know	20%
I don't care	10%

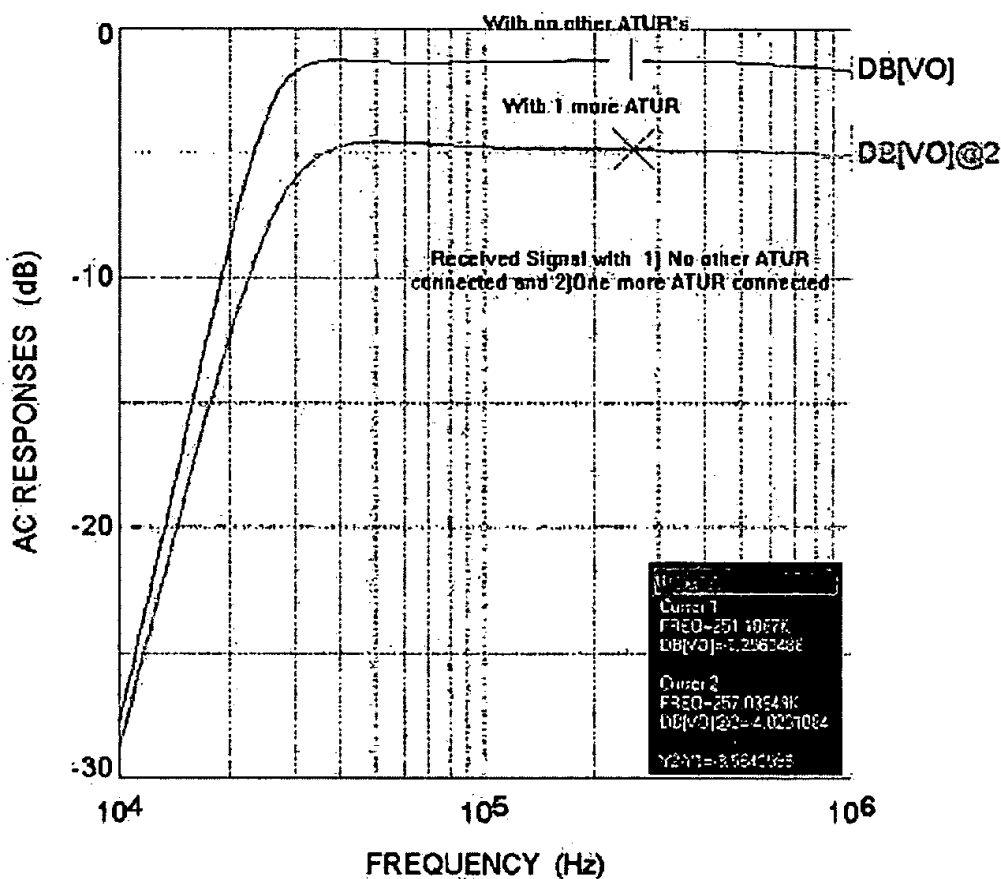


Figure 6: Reduction in the Signal Received by the ATU-R

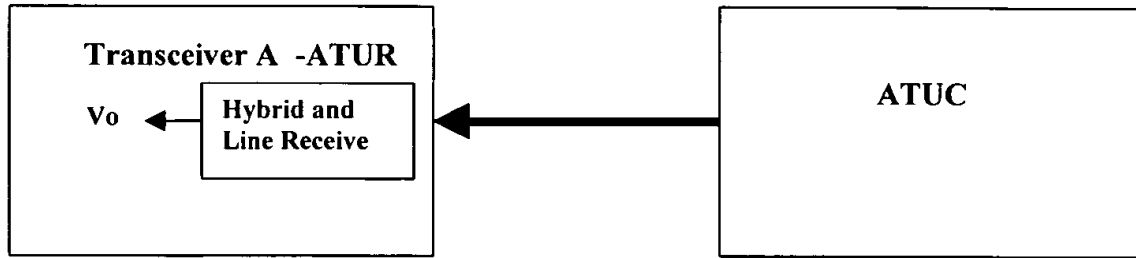


Figure 6a: Signal received when only one ATU-R is connected

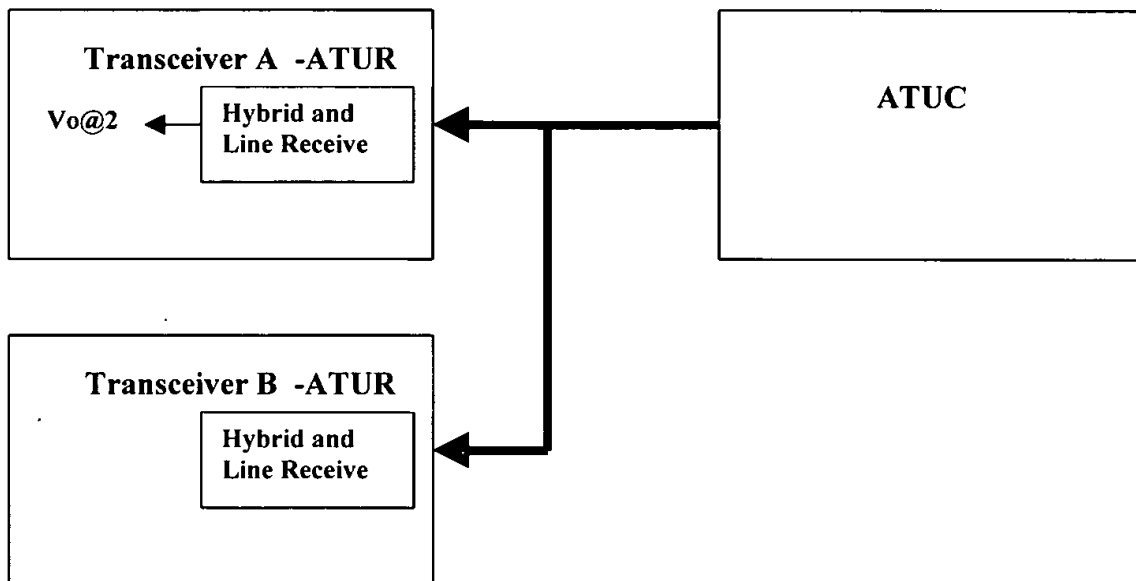


Figure 6b: Signal received when an additional ATU-R is connected to the same line

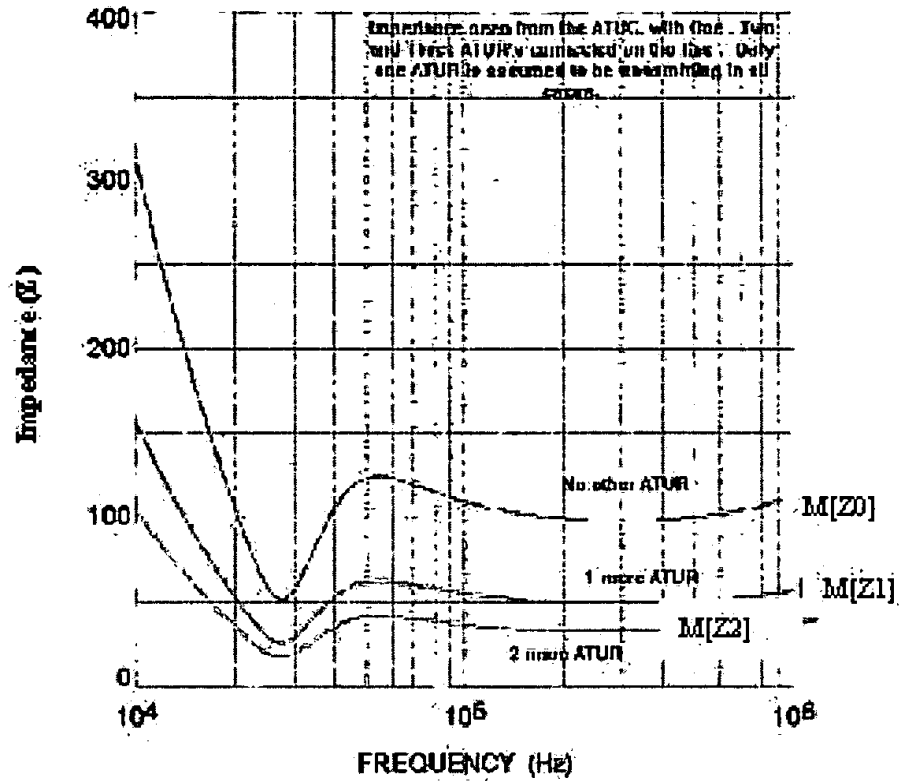


Figure 7: Reduction in the Effective Impedance with Multiple ATU-Rs

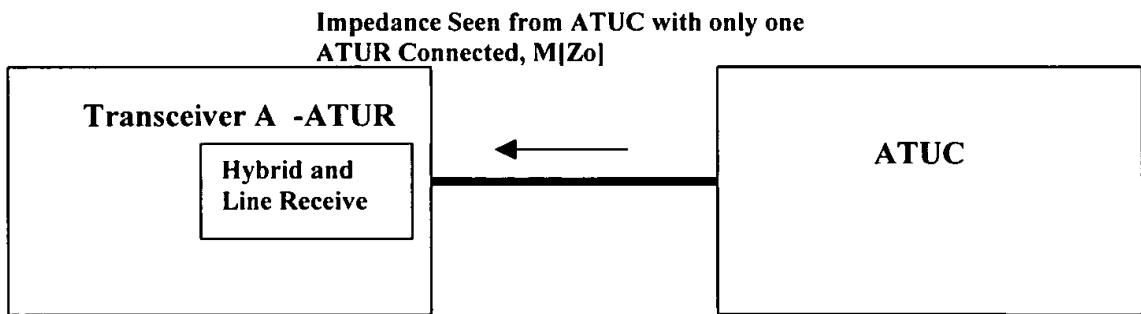


Figure 7a: Impedance seen by the ATU-C with one ATU-R connected to the line

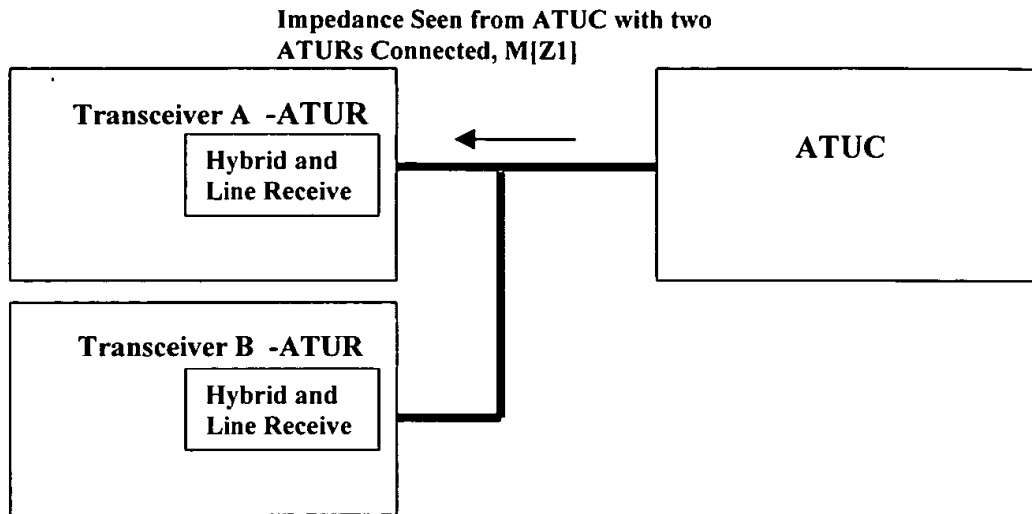


Figure 7b: Impedance seen by the ATU-C with two ATU-Rs connected to the line

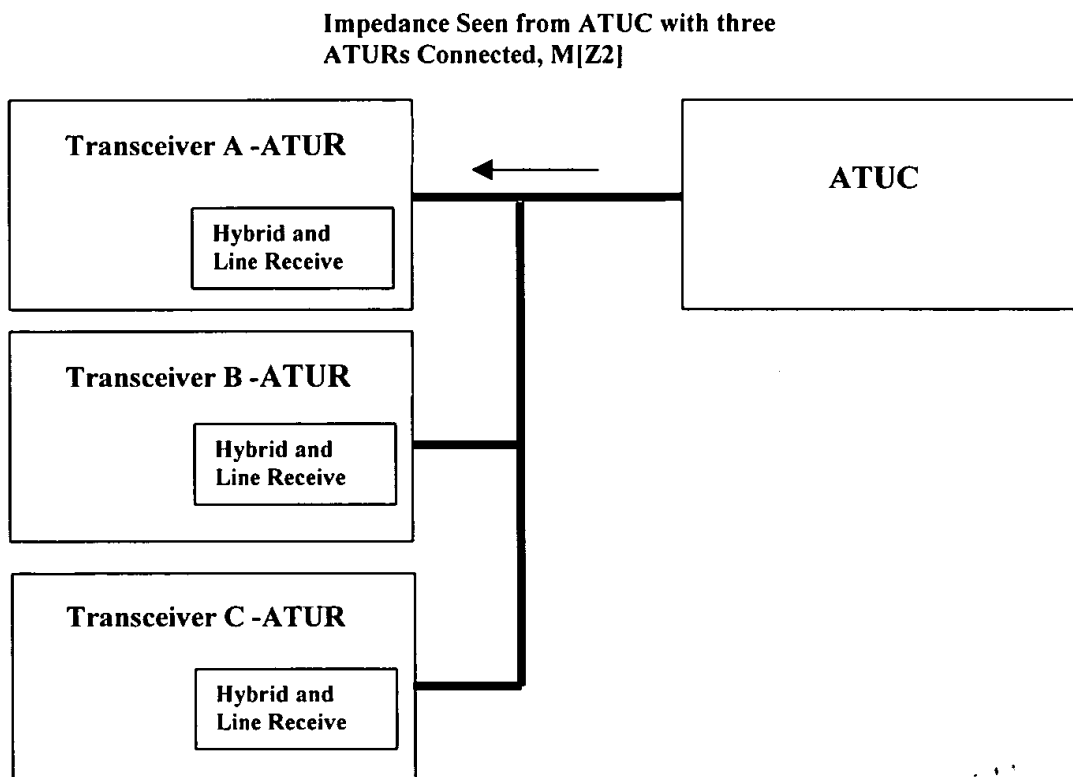


Figure7c: Impedance seen by the ATU-C with three ATU-Rs connected to the line

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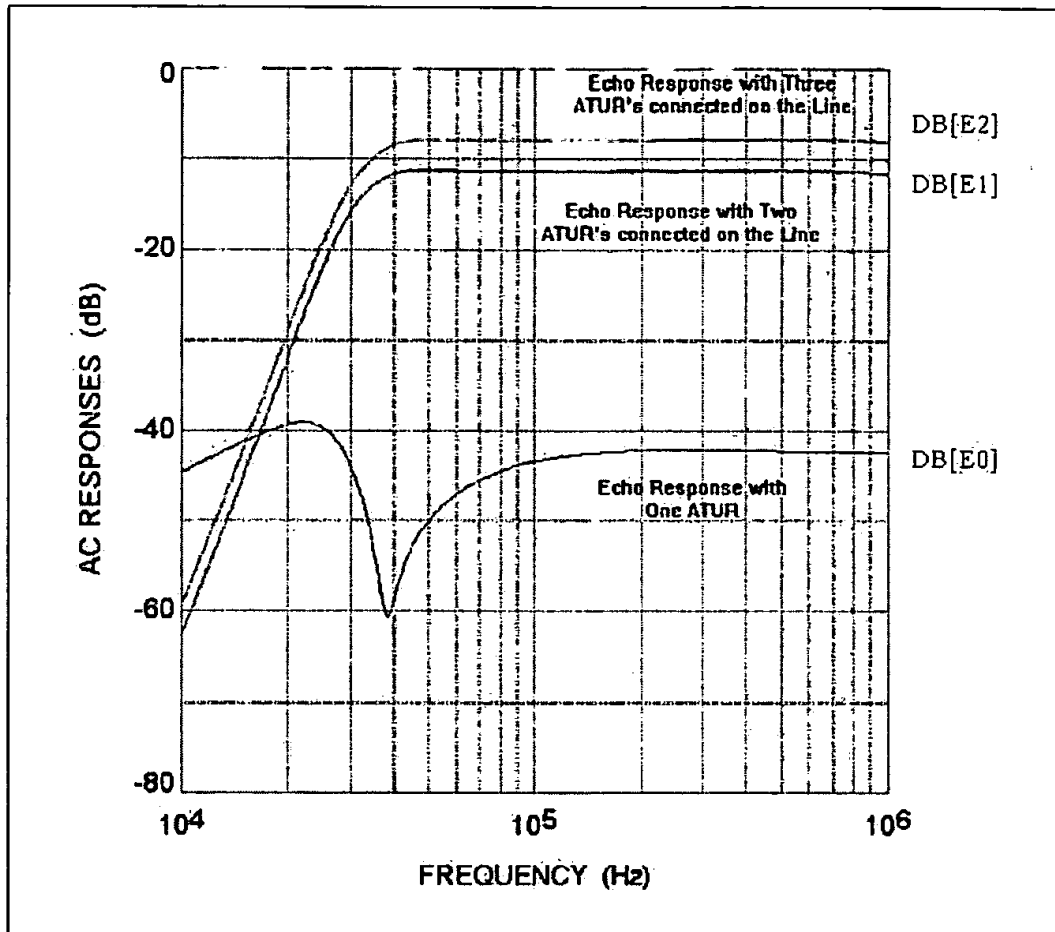


Figure 8: Increase in the Echo at the ATU-R due to other ATU-Rs

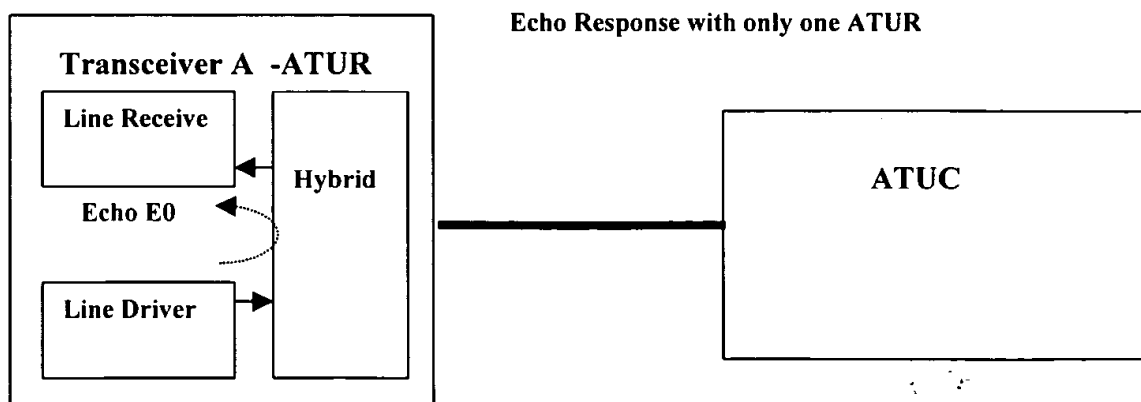


Figure 8a

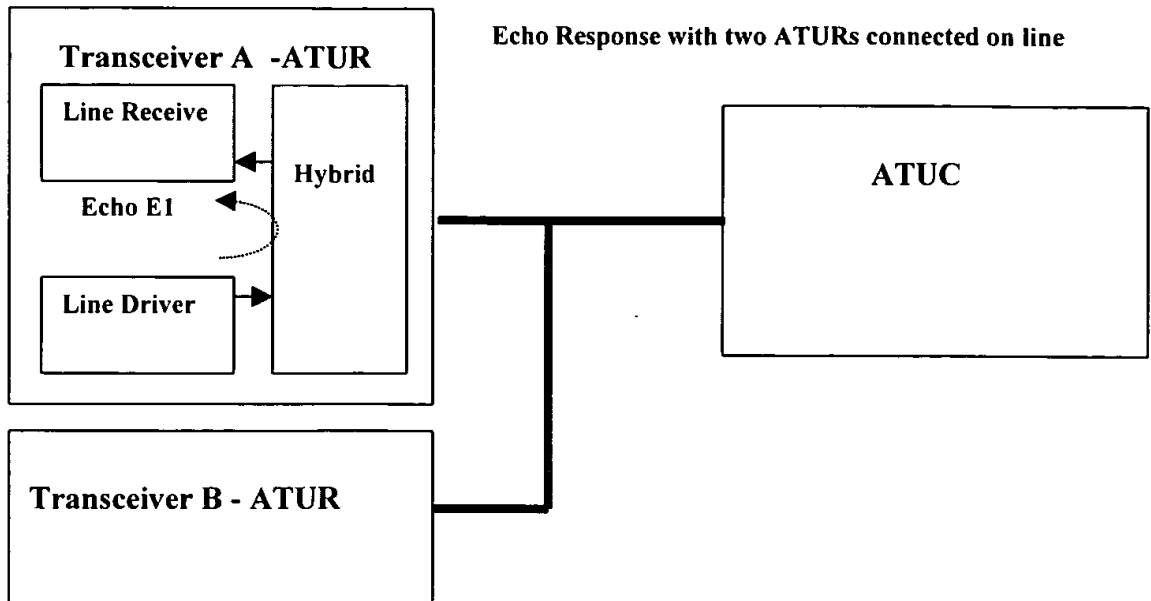


Figure 8b

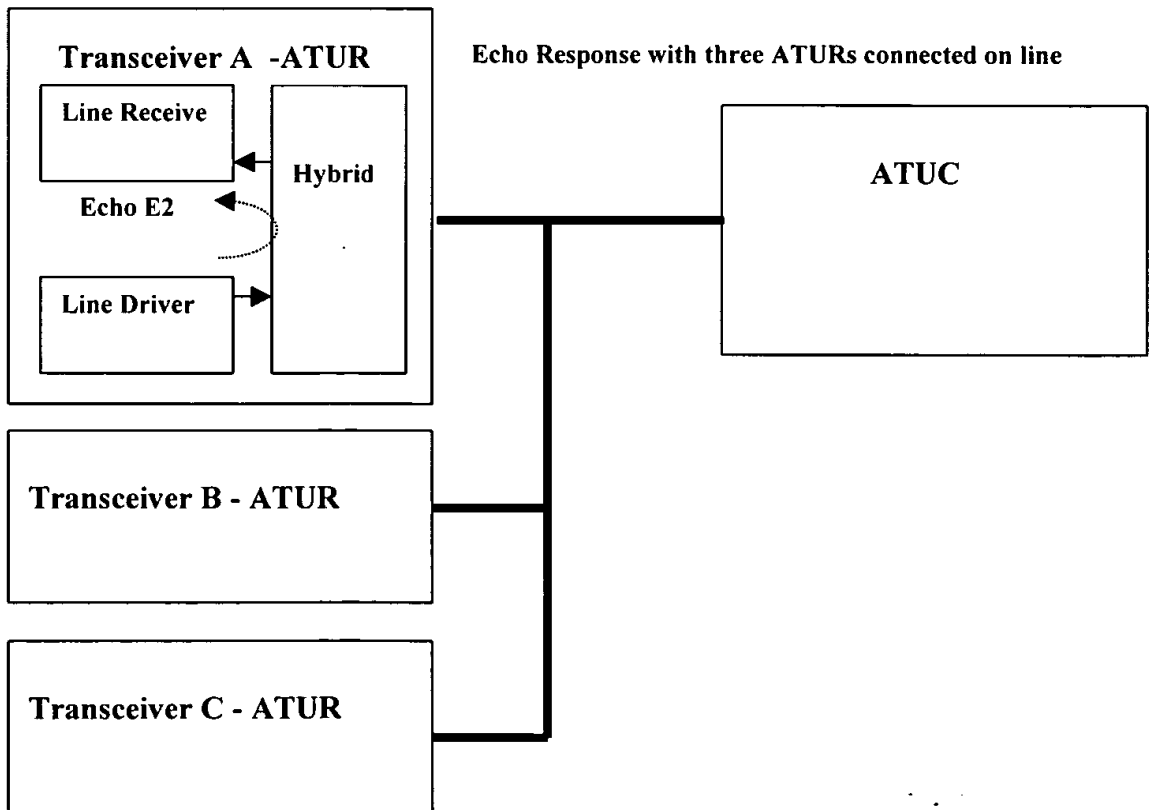
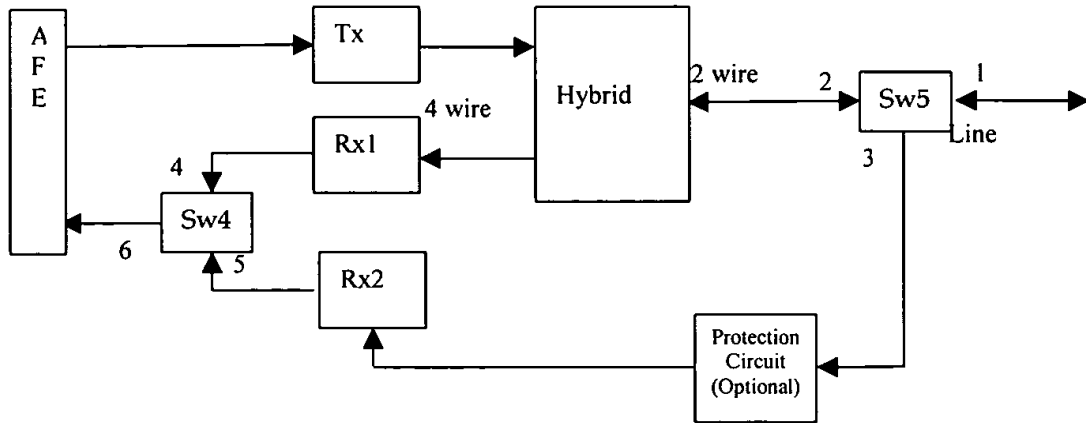
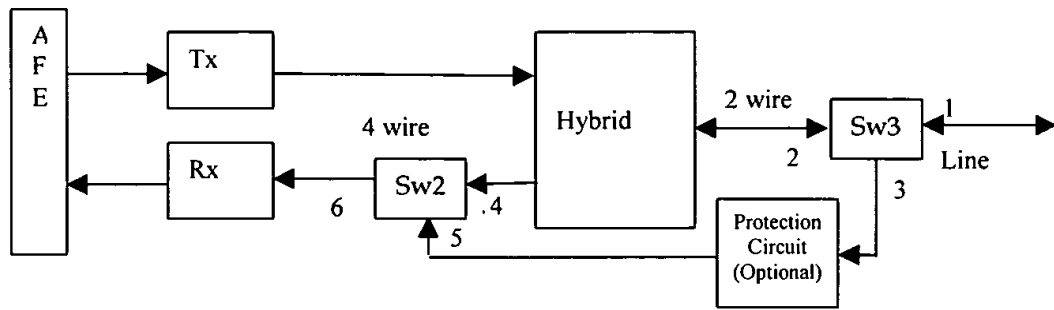
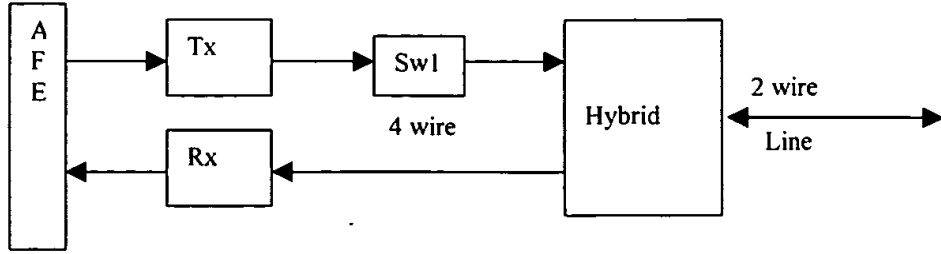


Figure 8c



Legend: Tx: Transmitter, Rx: Receiver, Sw: Switch, AFE: Analog Front End.

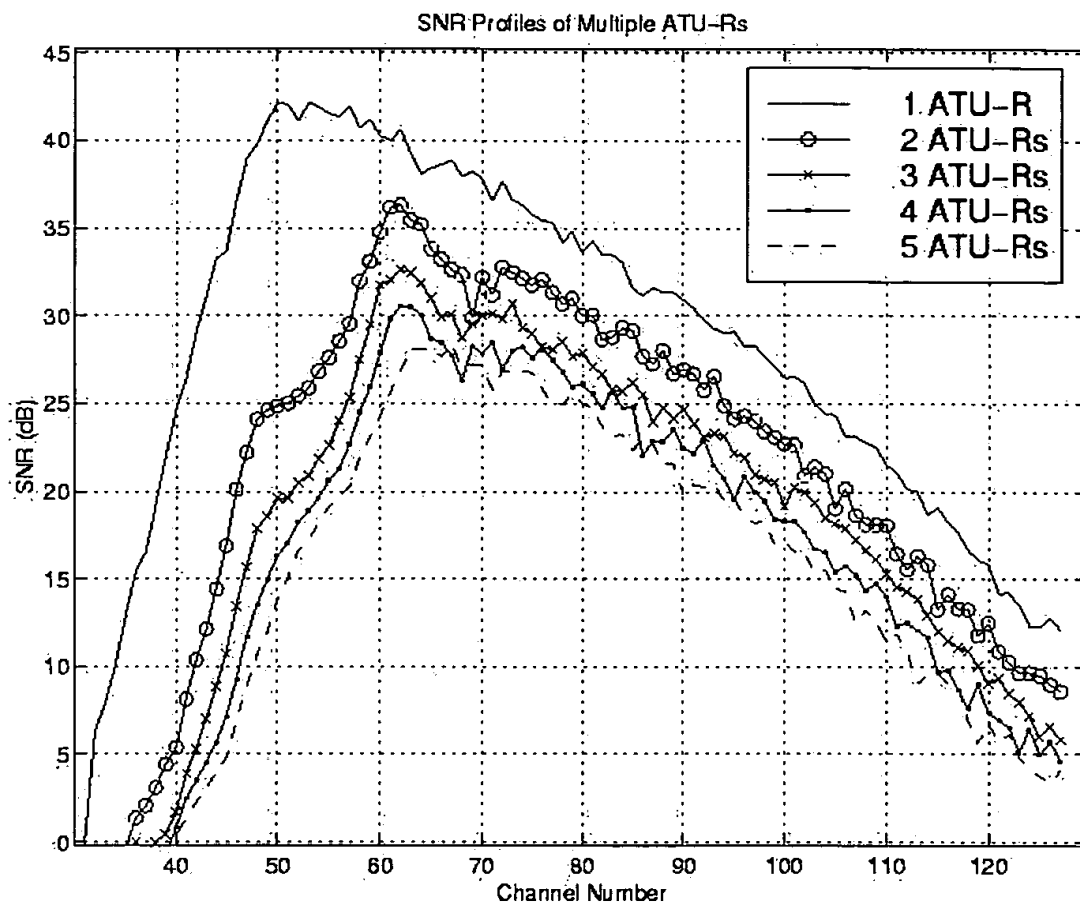


Figure 12: Simulation results of SNR profiles for multiple ATU-Rs

